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From:

To:

STAT

The enclosed SP-1811 report is submitted for your information. Sorry it took so long getting through the paper mill.

If further information is required, please let us know.

regards,	
	•
Project Engineer	
Advanced Development	Projects

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SENIOR CROWN PROGRAM

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SR -71
PROVIDING A TURN CAPABILITY
TO PERSONNEL PARACHUTE

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SPECIAL ACCESS REQUIRED SENIOR CROWN PROGRAM

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Lockheed Aircraft Corporation

ADVANCED DEVELOPMENT PROJECTS

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MODEL SR-71

TITLE

PROVIDING A TURN CAPABILITY TO PERSONNEL PARACHUTE

REVIEWED BY

APPROVED BY

Clarence L. Johnson

Senior Vice President

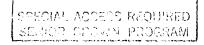
Advanced Development Projects

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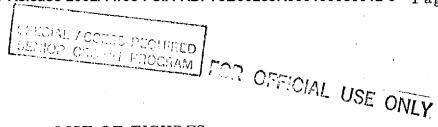
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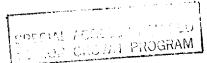
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LIST OF FIGURES

FIGURE 1-1	RISER LINES
FIGURE 1-2	RELEASE LINE
FIGURE 1-3	TEST JUMPER DESCENT - 3 LINES RELEASED
FIGURE 1-4	TEST JUMPER DESCENT - 6 LINES RELEASED
FIGURE 1-5	PARACHUTE

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ABSTRACT

This report describes the modification to, and the tests of, the air crew parachutes, the objective of which was to provide a crew initiated and controlled turn (steering) capability during a descent.

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INTRODUCTION

The personnel parachutes used on the SR-71 are not standard USAF personnel parachutes. The standard chutes are smaller and flatter and are capable of being turned during descent. The turning technique requires the release of four of the suspension lines from the canopy to the risers attached to the crewman's harness. Following this, the crewman, by chinning himself on one of the four risers, can cause the canopy to turn and thus can control his heading and, therefore, to some extent control his landing point to avoid obstructions.

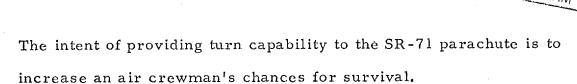
This report describes the attempt to provide a similar feature to the larger diameter and extended skirt canopy parachute used by the SR-71 air crew.

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CONCLUSION



However, fast reaction and high physical strength are required for successful use of the six line release method on the SR-71 parachute system. These requirements could not be met even with our extremely rigorous training programs. Also incorporating this technique will increase the complexity of parachute packing.

Therefore, it is concluded that this technique actually detracts from an air crewman's ability to survive and it is not recommended that it be incorporated in the SR-71 parachute system.



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DESCRIPTION OF MODIFICATION

An examination of Figure 1-5 will disclose the important anatomical features of the SR-71 air crew parachute when fully deployed. Following tests described in other sections of this report, it was determined that the optimum number of suspension lines to be released was six; three lines from each aft riser to the canopy.

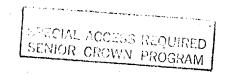
Figure 1-1 gives an overall close-up of the risers and the modification to the aft risers to incorporate release lines to effect the release of the three suspension lines mentioned above.

Figure 1-2 is a more detailed close-up of the upper portion of one of the release lines and its attachment to the "D" ring to which the suspension lines from the canopy are attached.

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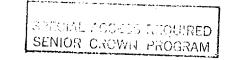
STATIC TESTS

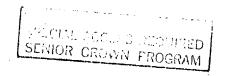
The purpose of the static tests was to determine the static strength of the suspension lines with and without the modification of adding the release line shown in Figure 1-2.

As shown in Figure 1-2 three of the eight suspension lines to the "D" ring were modified for these tests. Also full length suspension lines were used.

An examination of the following table of test results shows that the modification did not degrade the strength of the system.

Sample No.	$\underline{ ext{Type}}$	Failure Load Lbs.
. 1	Standard	3200
2	Modified	3250
3	Modified	3500
4	Modified	3000
5	Standard	3250
6	Standard	3250
7	Standard	3250
8	Standard	3250
. 9	Standard	3250
10	Modified	3500
11	Modified	3000





WHIRL TOWER TESTS

The purpose of the whirl tower tests was (1) to test the pull force required on the release line to release the three suspension lines under simulated dynamic conditions and (2) to verify the structural integrity of the parachute lines and risers under simulated dynamic conditions.

(1) Three tests using 300 lb. dummies were run at 170 KIAS

to check pull forces required to release the three suspension
lines. The results were as tabulated:

Test No.	Pull Fo	rce Libs.
1	L.H. 40	R.H. 50
2	L.H. 45	R.H. 35
3	L H. 60	R.H. 60

(2) A series of tests were run at various KIAS to verify structural integrity. The three tests at 170 KIAS reported above demonstrated the structural adequacy of the system at that KIAS.

Three tests were run at 300 KIAS with 300 lb. dummy and with a Navy test harness. In the first test, the "D" ring on the harness pulled out when the chute was approximately 3/4 open. In the second test, the neck ring on the dummy came away when the chute was approximately 3/4 open. In the third test there was no camera coverage and therefore no record of the sequence of failure. In all three of these tests the dummy separated from the chute. The release line modification was

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unaffected in all three tests.

An additional two tests were run at 225 KIAS and 250 KIAS respectively with complete success.

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AIRPLANE DUMMY DROP TESTS

The purpose for making drop tests with dummies from airplanes was to discover the optimum number of suspension lines to be released to render the parachute capable of being turned (steered) by the air crewman.

These tests were performed with a 300 lb. dummy being dropped from a C-130 at 10,000 feet altitude and at 110 - 125 KIAS.

The SR-71 parachute has seven (7) suspension lines on each of the two rear risers (see Figure 1-2) and eight (8) suspension lines on each of the two front risers.

The first drop tests determined the maximum number of suspension lines that could be released on the rear risers before the canopy collapsed. The canopy deployed stably with a total of eight lines released (four on each side). However, when 10 lines were released (five on each side) the canopy would alternately fill and collapse at approximately 50 foot intervals. This established that the maximum number of lines released per rear riser should not exceed three (3) per side in order to provide the required safety for live jumps.

It was further determined that for proper stability in terms of canopy action, that no more than three lines per riser should be released. Therefore, the optimum number of lines to be released to effect turn control of the chute during descent should be three per rear riser for a total of six.

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LIVE JUMP TESTS

The purpose of these tests was to evaluate the feasibility of the air crewman turning (steering) the parachute during descent.

The live jumps were made from a C-130 flying at 10,000 feet altitude and 110 - 125 KIAS. The first nine jumps were with "shirt sleeve" equipment to acquaint the men with the parachutes and other SR-71 equipment and the suspension line release. The other nine jumps were made with the men wearing full pressure suits. The technique of suspension line release used was to release three of the seven lines on each of the rear risers in consecutive order after the canopy opened (Figures 1-3, 1-4 and 1-5).

To summarize the written statements of the jumpers which are duplicated in the appendix:

The jumpers reported that it required approximately 30 seconds to make 360° turns with the six suspension lines released. Holding down a front riser to effect the turn was exhausting effort. The descent rate was unaffected by the release of the six suspension lines, remaining approximately 20 feet per second. Also a constant turning factor was introduced after line release which demanded continuous physical effort to overcome. The down wind velocity was increased by four knots at a ground wind velocity of eight knots.

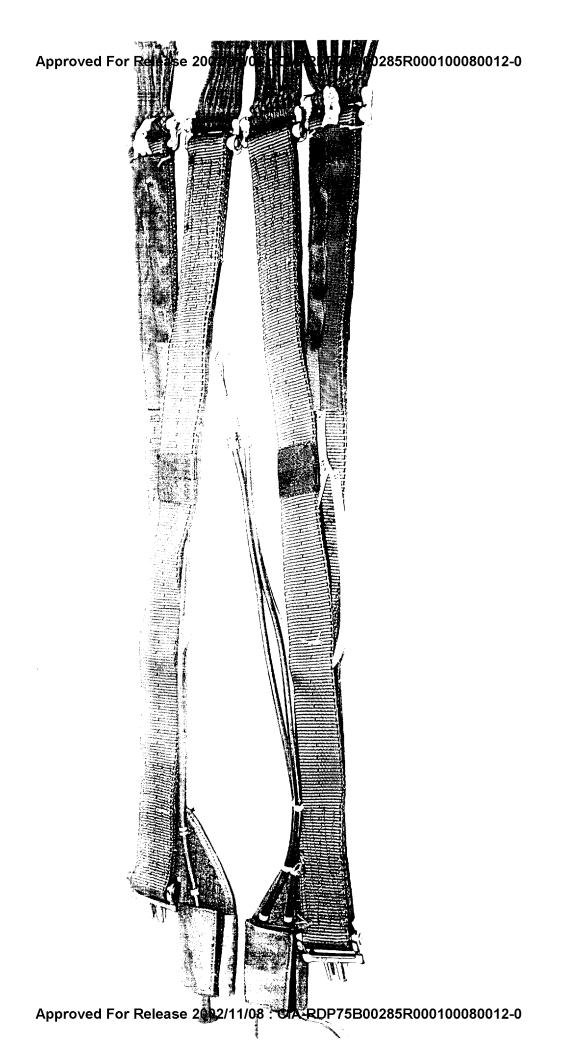




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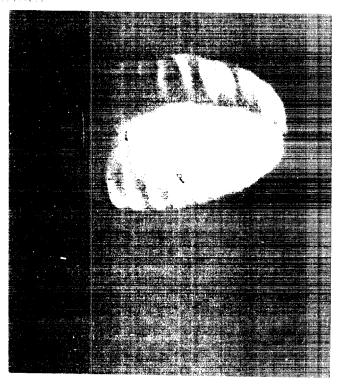
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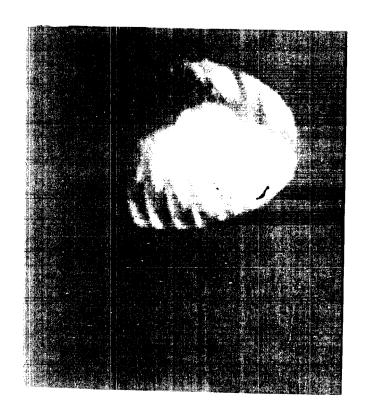
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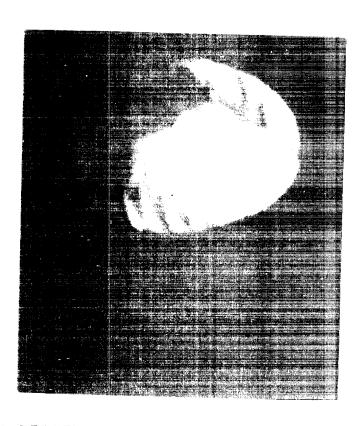
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TEST JUMPER DESCENT BEFORE AFT RISER LINES RELEASED.)



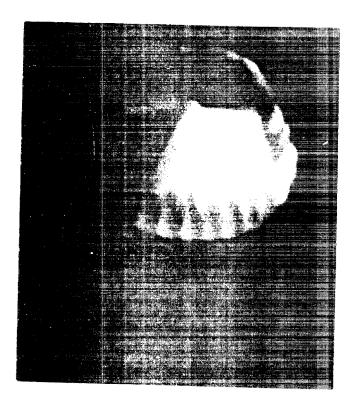


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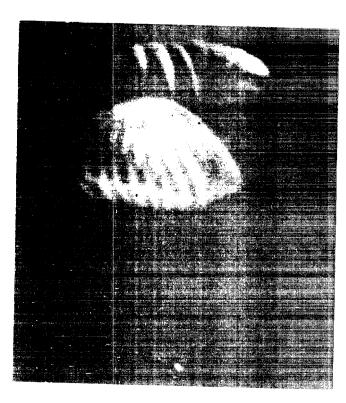




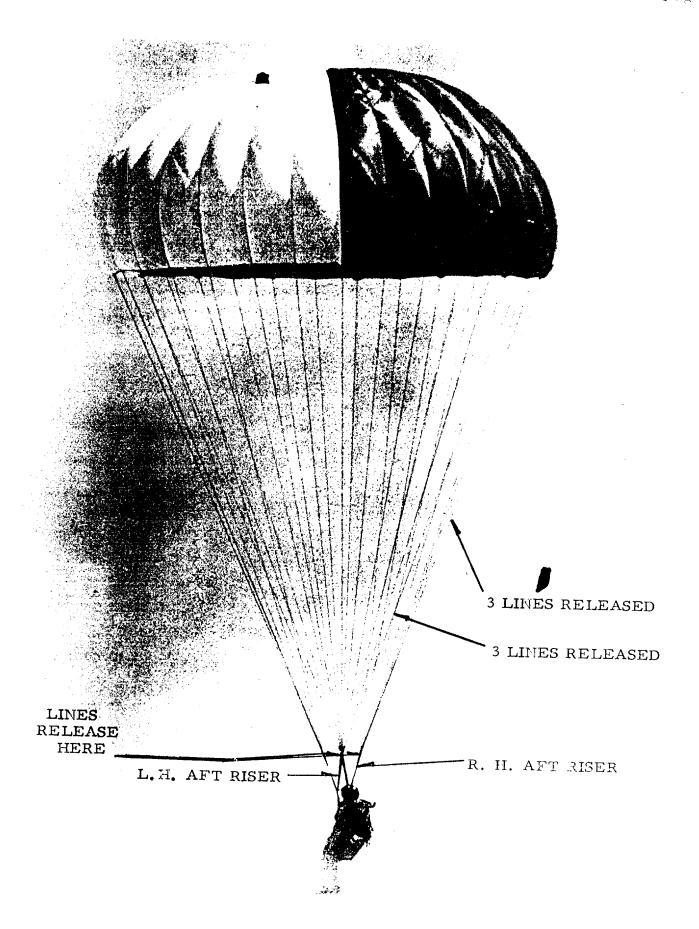
TEST JUMPER DESCENT

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APPENDIX

Live Jump Test Reports

<u>Name</u>	Date
Simpkins, Jimmie C.	9 June 1971
	11 June 1971
	30 June 1971
	2 July 1971
Alexander, Guillermo M.	4 June 1971
	11 June 1971
	2 July 1971
	8 July 1971
Nye, James W.	9 June 1971
	11 June 1971
	8 July 1971
Sallee, Jettie L.	4 June 1971
	9 June 1971
	30 June 1971
	2 July 1971
Brown, Herbert R.	30 June 1971
•	8 July 1971
Powers, William E. Jr.	4 June 1971

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AFFTC FORM L-0-16

MEPLACES SELLTH TEST GROUP (P) FORM \$5, 4 PESS 57, WHICH IS OBSOLETE

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AST NAME - FIRS	T NAME . MIDDL	E INITIAL		GRADE		BERIAL	NUMBER	_	STAT
SIMPKINS,	JIMMIE C.	•		C	PT				
ARACHUTE TYPE			MAIN CAN	OPY TYPE					
[X] BACK		7 SEAT	28	' STANDARD F	LAT	50' PER	SONNEL		T-10
CHEST		-	24	STANDARD F	LAT FC	other.	CIAL	JSE (OMEN
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RESE	RVE PARACHUT	E DATA	X) NO	NE [MEDIUM		YES	(<u>X</u>) N	
SED				онт 🗀	HEAVY		NR OF FU	LL TWIS	Ts None
YES		∑ но	SEMI-INVE	RSION		COMPL	ETE INVE	REION	
NUSUAL OCCURP	ENCE		-	s [X) но		YES	X X	10
NOSOXL OCCOM			SQUIDDING	CANOPY		INJURI	E.S		
YE\$. L .	Х ио		:s (<u>X</u>) но		YES.	[X] ×	10
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pulled and his canopy released a were releathe left for provided for with the jed at 4,00 approximate comfortable.	rne positi immediate with no p nd got no sed with a ront riser or pulling umper at to ft. No ely 90° due and rema	on) and delay canopy infla roblems. The response. Ap sharp jerkin pulled to show the risers of this time seem problems. The to the jump timed cool almost and cool almost cool	red for a tion occ proximating movement town were ned to in tirns attempts to i	pproximatured. No tried to ely 30 sent. No pevel. Ave approximaturease os empted frog exhauste mpact.	turn the conds after the conds	anopy ar exi 3600 n time too hi The ne to	with not the sturns was 35 gh. The seat ke ground e suit	o line ix line ere me sec.The sea it wa impac is ve	es nes ade with he tabs t being s releas t were
pulled and his canopy released a were releathe left for provided for with the jed at 4,00 approximate comfortable.	rne positi immediate with no p nd got no sed with a ront riser or pulling umper at t 0 ft. No ely 90° du e and rema turn in a	on) and delay canopy infla roblems. The response. Ap sharp jerkin pulled to show the risers of this time seem problems. The to the jump timed cool almost and cool almost cool	red for a tion occ proximating movement town were ned to in tirns attempts to i	pproximatured. No tried to ely 30 sent. No pevel. Ave approximaturease os empted from exhausted ing movements.	turn the conds afteroblems. rerage turn the conds after the conds after turn the conds after turn the conds after turn turn the conds after turn turn turn turn turn turn turn tur	anopy er exi 3600 n time coo hi The ne to ressur 3600	with not the sturns was 35 gh. The seat ke ground e suit turns	o line ix line ere me sec.The sea it wa impac is ve	es nes ade with he tabs t being s releas t were

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I This space to be used to explain all, unusual occurrences, injuries, etc. NEGATIVE REPORT IS REQUIRED.

JIMMIE C. SIMPKINS, CPT, USA

			Page 19
	INDIVIDUAL LIVE J	UMP REPORT	July 1971
IT HAME . FIRST HAI	ME - MIDDLE INITIAL	SIMME ACCESS REQ	UITER AL NUMBER
SIMPKINS, JIM	MIE C.	SENIOR CROWN PRO	
PARACHUTE TYPE		MAIN CANOPY TYPE	USE ONL
X BACK	SEAT	MAIN CANOPY TYPE 201 FTOBAROFEAT	30' PERSONNEL T-10
CHEST	TROOP		₹ отнея
PARACHUTE PART NR			
UNUSUAL OCCURRENCE	:	MAIN	CANOPY DATA
T YES	(X) NO	DAMAGE	TWIST IN LINES
RESERVE F	PARACHUTE DATA	X NONE MEDIUM	YES X NO
USED		LIGHT HEAVY	NR OF FULL TWISTS
YES	[]З но	SEMI-INVERSION	COMPLETE INVERSION
UNUSUAL OCCURRENCE	I	YES X NO	YES X NO
		SQUIDDING CANOPY	INJURIES
YES	_20 ио	YES X NO	YES X NO
REMARKS I			

Project - JON 134ADO - Altitude 10,000 ft - Speed 125 KIAS. The jumper exited the aircraft in an airborne position and delayed for 3-5 seconds. The ripcord pull was easy; however, the ripcord was hard to see from the helmet. The jumper released the 6 lines with no problems. 360° turns were accomplished by use of the left front riser. Approximate time was 30 seconds per 360°. The jumper around 6000 ft set a heading for the bull's eye on the drop zone and was able by pulling on the right front riser and then the left front to hold the heading for approximately 2000 ft. The seat kit was released at 4000 ft. No problems. Turns attempted with the canopy after seat release were minimum due to seat kit revolutions below the jumper and also the jumper's strength was exhausted. The pressure suit was comfortable. No problems were encountered in this test.



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Approved For Release 2002/11/08: GARDP 1806285R000

JIMMIE C. SEMPKINS, CPT, USA

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	Approved Bab Re 165 st 180	02/F1408 : CIA-RDP75B00285E0	001,000,800,720,4-1971
-	AST NAME . FIRST NAME - MIDDLE INITIAL		SERIAL NUMBER
Ι,	A	157 1 01112	
	ALEXANDER GUILLERMO	M	
j	PARACHUTE TYPE	MAIN CANOPY TYPE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	DEAT SEAT	FOR 24 OF AND AND FLAT SE	SOY PERSONNEL T-10
ı	BACK SEAT	TELICIAL USE DY	STAT W
	CHEST TROOP	EBS-OLVHDVHP, LTVL	OTHER STAT
	PARACHUTE PART NR	MAIN CAN	OPY DATA
۲	YES NO	DAMAGE	TWIST IN LINES
+	RESERVE PARACHUTE DATA	NONE MEDIUM	TYES NO
h	JSED	LIGHT HEAVY	NR OF FULL TWISTS
1	YES NO		COMPLETE INVENTION
		SEMI-INVERSION	YES NO
	UNUSUAL OCCURRENCE	SQUIDDING CANOPY	INJURIES
۱	☐ YE# NO	YES NO	YES NO
Ļ	REMARKS 1		, ,
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	The System file	are and a	s conformer
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	and deployed t	Le caralty,	The opening
	and alphy	, The state of the	
	De la	Turning the	2 canopy would
	shock was light		1 Oftan
4	The Later De	lacal is use	eless after
	out The 6 line re	A A	a more of the state of the stat
	deploying the 7	it Inelease	l the 6 lines
	deployeng not		4.1
	and tryed to tu		I by pulling
	of Toward to Tue	m the cont	They all
	on the rear rise	71 - 6	100 Was book
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	about 30 per m		+10
	were much lett	as but aliel	book
١	were much the		# 1
	forward drift was	a cloud 4 km	is. The carroper
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Ì	The rusers are sury	a no proce,	to sum to
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	ho next of I not a	Vaictorie.),	vastured when or
ا	the risers are being for the conector li	K-Kit	
	1 This space to be used to explain all unaual occurs	encee, injuriee, W	mildleman
	etc. NEGATIVE REPORT IS REQUIRED.	- All (181920)	Ill Ollewill

Approyed For Beloges of the	OZ/APIOST: CI	A-RDP75B00285F	Page 1	21
LAST NAME . FIRST NAME . MIDDLE INITIAL		ADE ,	SERIAL NUMBER	
ALEYNDER, GUILLAIDD M.		1St 1T		
PARACHUTE TYPE	MAIN CANOPY	TYPE	AL ACCEST PROSE	
BACK SEAT	28° 8T A	ANDARD FLAT SPEC	ROTERICIAL USE THE STATE	r
CHEST TROOP PARACHUTE PART NR	24' STA	NDARD FLAT	A OFFICIAL STA	Τ
UNUSUAL OCCURRENCE		MAM	ANOPY DATA	
YES NO	DAMAGE			
RESERVE PARACHUTE DATA	NONE	MEDIUM HEAVY	NR OF FULL TWISTS	
□ YES □ NO	SEMI-INVERSIO	N ,	COMPLETE INVENSION	
UNUSUAL OCCURRENCE	YE5	[t] NO	YES NO	
☐ YES NO	SQUIDDING CA	HOBY HO	TES NO	
REMARKS I				
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Pulled. After out AND O	pen) o	RELEASED	THE GLINES AND	
THE SURVIVAL, KIT. I CO	NCENTR.	17ED ON -	THE FRONT RISERS	\$
SPECIALY THE RIGHT P	RONT. 7	THE CANDP	Y IS SLOW TO	
REACT AND IT TAKES	ABOUT SUSPECULE!	18-25 sec	infor A 360° TURI	N,
THE WIND WAS MAKING	Thenb	IT VASCILLAT		
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			STOCKAM STOCKAM	
			STEUR COMPLETE	
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		Val	OR OFEICIAL USE ONL'	
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1 This space to be used to explain all unusual occur	rences, injuries,	SIGNATURE	De o	

AFFIC FORM Approved For Release 2002/11/08: CIA-RDP75B00285R000100080012-0

1 This approved For Release 2002/11/08, : GIA-RDP/5B09285R000100080012-0

•IC. NEGATIVE REPORT IS REQUIRED.

			Page 23
	INDIVIDUAL LIVE J	UMP REPERT	8 JUL 71 STA
ST NAME . FIRST NAME	- MIDDLE INITIAL	GRADE	SERIAL NUMBER
ALEXANDER	2 Guille	eno MISILTE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ARACHUTE TYPE		MAIN CANOPY TYPE	
BACK	SEAT	28° STANDARD FLAT	30' PERSONNEL T-10
CHEST	TROOP	24" STANDARD FLAT	PECLAL ACCESS REQUIRED STATES CROWN PROGRAM
ARACHUTE PART NR		MAIN CA	NOPY DATA
YES) NO	DAMAGE	TWIST IN LINES
	RACHUTE DATA	NONE MEDIUM	☐ YES ♠ NO
JSED .		LIGHT HEAVY	NR OF FULL TWISTS
YES	№ но	SEMI-INVERSION	COMPLETE INVERSION
JNUSUAL OCCURRENCE		YES NO	INJURIES NO
YE8	Ж но	☐ YES NO	TYES NO
afout 2. after che lines a turns. Th it was t turns was	sec and hecking not down	after I left It deployed the deployed the run do mude the ruser: The 30 sec. It was without the	main canopy, eleased the 6 de several 36 the harder time bor a 36 a a bol less he surrival bi
		SPECIAL ACCE SENIOR CRO	GS REQUIRED PROGRAM

s *	A		BAYE Page 24
	Approyed Tox Beloze 92	002/11/087 CIA-RDP75B00286R00	0100080012-0
LAST NAME - FIRST	NAME . MIDDLE INITIAL	GRADE ,	SERIAL NUMBER
alye-	James 10	Capt Acco	
PARACHUTE TYPE		MAIN CANOPY TYPE	STAT A W
BACK	SEAT		30' PERSONNEL T-10
CHEST	TROOP	24' STANDARD FLAT	PHUIAL USE ONLY P
UNUSUAL OCCURRE		MAIN CAN	IOPY DATA
YES	× No	DAMAGE	TWIST IN LINES
RESER	VE PARACHUTE DATA	NONE MEDIUM	YES NO
USED		LIGHT HEAVY	NR OF FULL TWISTS
YES	□ , но	SEMI-INVERSION	COMPLETE INVERSION
UNUSUAL OCCURRI	ENCE	YES X NO	☐ YKS ☐ NO
		SQUIDDING CANOPY	INJURIES
[] YE.	Д но	☐ YES, ⊠ NO	T YES NO
REMARKS I ON ALL	RISH TURNS, PULLED	CUNNETUR LINKS TO C	HIN LEVEL
1. NO RELEAS	OFLINES, NO KIT RELEUOR	TAIDED PULLING A VISER 3	OSE NO TURNING
2. Kit Reisma	ed; No lines released, Pr	LLED IT FRONT FISER, 360 TO	IN IN 60 sec Belleve
KAFT ROTT	ED AS SAIL TO HELP YM	N	
2 Vr Docom	ses, 3 line release. E	frest some as (2)	1 1 160 00 1
11 1 - 221 80	use D 6/me returned.	pulling back risers	had little effect.
0 10	C. A was made	ad 360° turn in app	ra 25 sec. Dance
Pulling	from I Fish produ	10()	Simo wol
est en	f both direction	s. Canopy held hea	a la
1 7/	, ,	vg risers. Recommen	1 pilot to
Exmen	mely Tiring puller	vg risels. Icecommen	
wait	Intil 200-300	It. above ground. beg	ore very.
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		· Jane	DED
	· ·	SENIOR CRUIV	OGRAM
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1		SENIOR CHO	
	•	FOR OFFICIAL	_ USE: ONLY
		TOR OFFICE	
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ATETC FORM HAY 86 POT RELEASE 2002/11/08 : CIA-RDP75B00285R000100080012-0
REPLACES SEITTH TEST GROUP (P) FORM 23, 4 FEB 87, WHICH IS OBSOLETE.

I This space to be used to explain all unusual occurrences, injuries,

etc. NEGATIVE REPORT IS REQUIRED.

1	Approxyqdibec Bellegeej 80	92414Φ3; CIA-RDP75B00285E3	00100080012-0 Page 25
LAST NAME . FIRST	NAME - MIDDLE INITIAL	GRADE	SERIAL NUMBER
Nyc	James W	Capt CIAL AC	
PARACHUTE TYPE		MAIN CANOPY TYPE	OWN PROGRAM STAT
BACK	BEAT	28" STANDARD FLAT	SO PERSONNEL TOTO
CHEST	TROOP	C 24" STANDARD FEOR OF	TOWAL USE ONLY
PARACHUTE PART N			
YES	Пио	DAMAGE	TWIST IN LINES
RESERV	E PARACHUTE DATA	MEDIUM	YES NO
	NO	LIGHT C HEAVY	NR OF FULL TWISTS
	NO NO	SEMI-INVENTION	COMPLETE INVENSION
UNUSUAL OCCURREN	,	SQUIDDING CANOPY	INJUNIKS NO
TEMARKS	, [] но	T YES NO	YES NO
Connector		TO CHIN LEVEL	
ONly of	feetive TURNS	were accomplishe	a using travt
panels, and after a	Canopy ray sta, bling without pilling	owing Some Damas Ble. Little Oscilla Comopy have very an risers. It require	lettle tendency
the rite	front for mos	tof the trans, ma	hing a lot of turns
Le is 200	1915	making turns. At	1 & Should
1 200-	SUDJY BE TOLL	turns.	1
Received	bruses, on both	Jumps, under left a	cur ven aim pit.
		,	
		SPECIAL SENIOR	ACCESS REQUIRED CROWN PROGRAM
•			
•			
	,		
MATTER STREET AND THE		FOR OFFICIAL U	SE ONLY
I This space to be	s used to explain all unianal occurre	SIGNATURE	
	C REPORT IS REQUIRED.	nces, injuries,	Nyc

AFFTC -Approved For Release 2002/11/08 & GIA-RDR75B00285R000100080012-0. ..

INDIVIDUAL LIVE JUMP REPERT GRADE SENIOR CROW RACHUTE TYPE MAIN CANOPY TYPE STAT CHEST TROOP RACHUTE PART NR USUAL OCCURRENCE WAIN CANOPY DATA DAMAGE RESERVE PARACHUTE DATA DED VES NO SEMI-INVERSION GRADE SENIOR CROW SEMI-INVERSION COMPLETE INVERSION NO NO NO SEMI-INVERSION COMPLETE INVERSION	Approved For	Elease 2002	2, 1 1/00 . CIA	-NDF (3000	720-XV0010	DAYK	SP-18 Page
BACK SEAT SO' PERSONNEL TIMES CHEST TROOP 24' STANDARD FLAT SO' PERSONNEL TIME CHEST TROOP 24' STANDARD FLAT SO' PERSONNEL TIME VES	INDIVIDI	UAL LIVE JU	MP REPORT	K	a company of the comp		م وسن بسي
MARKE! ANN CANOPY TYPE STAT BACK SEAT CHEST TROOP TROOP TROOP ANN CANOPY TANDARD FLAT SO' PERSONNEL THE THOOP ANN CANOPY DATA MAIN CANOPY DATA	ST NAME - FIRST NAME - MIDDLE	INITIAL					R!
CHEST TROOP 24' STANDARD FLAT SO' PERSONNEL TIME RACHUTE PART NR USUAL OCCURRENCE YES NO RESERVE PARACHUTE DATA LIGHT HEAVY NR OF FULL TWISTS. SEMI-INVERSION SEMI-INVERSION SEQUIDDING CANOPY YES NO MARKS FULL PRESSURE SUIT NO SCAT LIT All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risere of this canopy than a C-Q. As a result it is more tiring making turns. The canopy kmidx xxdxxd does not have a tendency to turn unless the front risers are pulled. That is it holds a heading well. The pressure suit did not present a problem. It was a little more difficult to see because of the helmet, but the canopy can easily	NIE JAMES	W		CATPT	MOR CROW		
CHEST TROOP 24'STANDARD FLAT OTHER RACHUTE PART IN UNDUAL OCCURRENCE VES NO DAMAGE TWIST IN LINES RESERVE PARACHUTE DATA VES NO SEMI-INVERSION COMPLEYE INVERSION NO NR OF FULL TWISTS. SEMI-INVERSION CANOPY INJURIES NO SQUIDDING CANOPY NO VES NO NO VES NO SQUIDDING CANOPY NO VES NO ALL turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risers of this canopy than a C-Q. As a result it is more tiring making turns. The canopy MXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ARACHUTE TYPE		MAIN CANO	PY TYPE			STAT
CHEST TROOP AND THER RACHUTE PART NR USUAL OCCURRENCE VES RESERVE PARACHUTE DATA LIGHT HEAVY NO ROF FULL TWISTS NO SQUIDDING CANOPY NO SQUIDDING CANOPY NO SCAT KIT All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risers of this canopy than a C-9. As a result it is more tiring making turns. The canopy MARKE XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	BACK	SEAT	26'	STANDARD FL	.AT		Т-10
NAMACE YES NO DAMAGE TWIST IN LINES NO	,	TROOP	24°	STANDARD FL	AT Æ		e Mari Corporation in
RESERVE PARACHUTE DATA RESERVE PARACHUTE DATA NONE	ARACHUTE PART NR				MAIN CAN	OPY DATA	.,
LIGHT HEAVY NR OF FULL TWISTS. SEMI-INVERSION VES NO VES NO VES NO NO VES NO VES NO NO NARKS¹ FULL PRESSURE SUIT NO SCAT LIT. All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risere of this canopy than a C-Q. As a result it is more tiring making turns. The canopy kmink axinning does not have a tendency to turn unless the front risers are pulled. That is it holds a heading well. The pressure suit did not present a problem. It was a little more difficult to see because of the helmet, but the canopy can easily	YES YES	но	DAMAGE			TWIST IN LINE	•
Semi-inversion THES NO SQUIDDING CANOPY VES NO SQUIDDING CANOPY VES NO SQUIDDING CANOPY VES NO SCAT KIT All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risers of this canopy than a C-Q. As a result it is more tiring making turns. The canopy kakkak **Exchanged does not have a tendency to turn unless the front risers are pulled. That is it holds a heading well. The pressure suit did not present a problem. It was a little more difficult to see because of the helmet, but the canopy can easily		DATA	- FZ-NON	IE 🗀	MEDIUM	YES	EQ NO
All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risers of this canopy than a C-Q. As a result it is more tiring making turns. The canopy kwkkx xxxxxxx does not have a tendency to turn unless the front risers are pulled. That is it holds a heading well. The pressure suit did not present a problem. It was a little more difficult to see because of the helmet, but the canopy can easily	\$ED		Lie	нт 🗀	HEAVY	NR OF	FULL TWISTS -
All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risers of this canopy than a C-Q. As a result it is more tiring making turns. The canopy waxax axabaad does not have a tendency to turn unless the front risers are pulled. That is it holds a heading well. The pressure suit did not present a problem. It was a little more difficult to see because of the helmet, but the canopy can easily	☐ YES	^т ио	SEMI-INVER				
FULL PRESSURE SOIT NO SCAT KIT. All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risers of this canopy than a C-Q. As a result it is more tiring making turns. The canopy hardx xxdxxxx does not have a tendency to turn unless the front risers are pulled. That is it holds a heading well. The pressure suit did not present a problem. It was a little more difficult to see because of the helmet, but the canopy can easily	NUSUAL OCCURRENCE		1		NO		□ мо
All turns were accompolished by pulling one of the front risers connector links down to chin level. Turns could be accompolished in 25 seconds (360°), There is more pressure on the risers of this canopy than a C-Q. As a result it is more tiring making turns. The canopy harder axamed does not have a tendency to turn unless the front risers are pulled. That is it holds a heading well. The pressure suit did not present a problem. It was a little more difficult to see because of the helmet, but the canopy can easily	T YES	МО	i		МО	•	D NO
Checked by publishing social against the region of the reg	nxdnnd does not are pulled. The The pressure suidifficult to see	t have a te at is it ho it did not e because o	endency to olds a head present a of the helr	turn unleding well. problem. net, but t	ess the fr It was a The canopy	ont risers little mo	re
FOR OFFICE OF SAME	be encened by pe	XDIIXIIG DOCK	· agains ·		,		
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1 This specApproved For Release 2002/11/08: CTA-RDP 75B00285R000100080012-0
sic. NEOATIVE REPORT IS REQUIRED.

	Approved Ton Belges guill	POMINOST CIA-RDP7	5B00285R00	^{BAYK} 01000800 12- (Page 21
LAST NAME . FIRST NA		GRADE		SERIAL NUMBER	
Suller	Jettic L	SENIOR CRUMNE PROC	Color V		
PARACHUTE TYPE	FC	PARETICIAL US	- 1:151:1	S	TAT
BACK	SEAT	26' STANDARD F	LAT	30' PERSONNEL	T-10
CHEST	TROOP	24' STANDARD FI	LAT TEK	OTHER	
PARACHUTE PART NR			MAIN CAN	OPY DATA	
YES YES	₩ NO	DAMAGE		TWIST IN LINES	
RESERVE USED	PARACHUTE DATA		MEDIUM	YES NE OF F	ULL TWISTS
YES	1 7 -10		HEAVY	COMPLETE INVE	
UNUSUAL OCCURRENCE		SEMI-INVERSION TO	_ NO	YES	.□′ но
YES		SQUIDDING CANOPY	~NO	L AKE	~[⊡T NO
7	he rear ri	sers hove	dit	the Tu	rning
Ability	· Pulling:	ove of T	The F	rout R	isers
E .	produce				
Decom	ds. Pullin	g one rear	1154	of wi	Il produce
a 5/	ight Turn	but will	resul	+ in	Total
Exhou	stion it	held low	g two.	ughito	produce
	ru. The		,		
5/1947	- Forward	drift. C	app 10 X	. A KNO	ots), Sandia
was N	ormal.	The Ris.	ers an	ehard	to pull
down	's and hold	d. No c	0801110	tions	were
Obser	red.	· · · · · · · · · · · · · · · · · · ·	SENIO	CESS REQUIRE	•
		l sin b	ATURE		
	be used to explain all unusual occ VE REPORT IS REQUIRED.		/2		22 111

App	Mare Epplace And The Control	₽₩₽₽₽ CIA-RI)P75B00285B00	00100080012-0 Page 28
LAST NAME . FIRST NAME .	MIDDLE INITIAL	GRADE		SERIAL NUMBER
,			1	
500 500 576	27/10 Au	THAIN CANORY TYPE	ACCESS !	OTAT
PARACHUTE TYPE		MAIN CANOPY TYPE	SECIAL ACCESS TO THE PROPERTY OF THE PROPERTY	SIAI
BACK	SEAT	28' STANDA	ROELAT	TO. BELLENHER AND TOTAL
CHEST	TROOP	☐ 24' STANDA	OR OFFICE	OTHER STAT
PARACHUTE PART NR UNUSUAL OCCURRENCE	,		MAIN CAI	NOPY DATA
₩S YES	П ио	DAMAGE		TWIST IN LINES
RESERVE PARA	ACHUTE DATA	NONE	MEDIUM	TARE TO NO
USED		LIGHT	HEAVY	NR OF FULL TWISTS
T YES	22 NO .	SEMI-INVERSION		COMPLETE INVERSION
UNUSUAL OCCURRENCE		YES	√Z NO	THE YES NO
T YES	∑ET NO	SQUIDDING CANOPY	. □Д′ ио	AES , NO
REMARKS .	2 2			- Ont-
Ramp E	xit C-1:	30 - 110	trots	- 10,000 for
:		1 0.	01	1 13
Norma	1 apening	shock.	Kelean	sed fit and
1 Thompell	decen.	Very un		
James James	1 01	13/	in use	eng a rece scour
oliserve	1. Kelleast	ed O -carr	20	Bo. Turning .
stally 1	pull. Re	lease wo	1 de	Le Turning remaining 3-lines se worked ok;
0 '	1 1 -	Release	d live -	1/2 1
was re	al slow.	- Jan	. Relea	se worked ok;
· /	1/2 street	,	•	
V		sekauseny	. Using	q Me from
1 am	ang -	, O	<i></i>	q The front accomplished
lin- appr	25-30	sec. Re	an reser	& stand nerry
. 1.2	The and the	hility.	Forward	Drift is approx.
nice	accounty -	1.		1
3-4 Knot	s. Tank	ing was	marina	el.
3			1	SPECIAL ACCESS REQUIRED SENIOR CROWN PROGRAM
				R OFFICIAL USE CILLY
	_		SIGNATURE .	
	ed to explain all unusual occur SPORT IS REQUIRED.	rrences, injuries,	May and the second	

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		Tage 29
Appknykylofinale	中全年代的2位中央第十 CIA-RDP75B0028年 LOSECIAL ACCESS REQUIRE	011.70 1426
LAST NAME - FIRST NAME - MIDDLE INITIAL	SENIOR CREEN PROGRAI	
Sallee Jetti	e Linn SEFERY USE	
PARACHUTE TYPE	MAIN EANOPYTYPE	STAT , It's
BACK SEAT	28' STANDARD FLAT	30" PERSONNEL . T-10 TV
CHEST TROOP	24" STANDARD FLAT	OTHER OTHER
PARACHUTE PART NR UNUBUAL OCCURRENCE	MAIL	N CANOPY DATA
☐ YES ☑ NO	DAMAGE	TWIST IN LINES
RESERVE PARACHUTE DATA	NONE MEDIUM	YES D NO
USED	LIGHT . HEAVY	NR OF FULL TWISTS
☐ YES 反 NO	SEMI-INVERSION	COMPLETE INVERSION
UNUSUAL OCCURRENCE	YES MO	☐ YES ☑ NO
☐ YES ☑ NO	SQUIDDING CANDPY	INJURIES
□ YES ☑ NO	☐ YES - □ NO	YES ZNO
REMARKS	a la de	in an ar
Ramp Exit	-130, 125 Knots,	10,000 pm.
1 / 0001	Small Tear	in rear of
Normal Open	ing. Small Tear	and Front
le pola	read 6 lines.	Pulling Right HON
Canopyo Relea	7308 6772000	
INNECTOR	I loved and He	blding produced
riser A down to	eye level and the	- 11 Lott
_		Tull of
a 360 /41N 11	down to eye Lev	al acaduced a
· · · · · · · · · · · ·	down to eye her	er produces a
LIZEL GONNECLO		· ·
3600 Turn in	approx 30 sec	ON ONE TURN
	The Turn co.	me in steps of
To the Lett	7/10/11/11	
Approx. 30°	This was only in	voliced on
one Turn.	The conopy wa	s constantly
	rn Peft. Rel	
Kit at 4000	ft. Turning A	Ability is Decreased
with Kit relea	rsed.	MI COUNT TRUIRED OVER
A STATE OF THE PARTY OF THE PAR	BIGNATURE	
I This space to be used to explain all un etc. NEGATIVE REPORT IS REQUIR	·	

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extremely Difficult. with The Kit and Roft Swinging Counter-Clockwise a Left Turn can be made in approx. 30 sec.

harder than with no pressure suit is slightly is still Comfortable.

SPECIAL ACCESS REQUIRED SENIOR CROWN PROGRAM

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Approved For Belease 2002	2/11/08 : CIA-RDP75B00285R0001	100080012-0 SP-1811
	AP REPORTCIAL ACCESS REQUIRED	2 Tuly
Sallee, Jettie L	FOR CHARLACTUSE OF SOME	
PARACHUTE TYPE	MAIN CANOPY TYPE	OTAT
SACK D SEAT	28' STANDARD FLAT	STAT
CHEST TROOP PARACHUTE PART NR	24' STANDARD FLAT	
UNUBUAL OCCURRENCE YES MO	MAIN CAN	NOPY DATA
RESERVE PARACHUTE DATA	···	TWIST IN LINES
USED YES NO	NONE MEDIUM LIGHT HEAVY	NR OF FULL TWISTS
UNUSUAL OCCURRENCE	SEMI-INVERSION YES NO	COMPLETE INVERSION YES NO NO
☐ YES OZ NO	SQUIDDING CANOPY	INJURIES NO
REMARKS 2	☐ YES → NO	TYES CON NO
Ramp Exit C-1. Steped off ramp Shock was extrem. Made a 6 7 Several 360° Tur completed in opprox fastest sturm was completed in just	ely Light. live Release on No. The 360 x. 30 sec. ea. (L+1)	table. Opening Id Timed of Turns were R.) The which was
AT. 4000 ft. of Ret. The Kit re only. I pushed get it to related todroped free and	eleaned on the lease. When the	Re left sede twice to kit released ground with
• · ·	SIGNATURE INC.	LIVERSON CHANGE !
Approved For Release 2002	2/11/08": CIA-RDP 75B00285R0001	100080012-0

FORM 1_0_1K

AFFTC

The Rit below. 115E SPECIAL ACCESS REOLIRED

Turning well quicker with no kit.

I had a small oscillation on londing

SPECIAL ACCESS REQUIRED SENIOR CROWN PROGRAM

EOR OFFICIAL USE ONLY

LAST NAME - FIRST NA		respundon de la locat			z oury	1971	
	ME . MIDDLE INITIAL		GRADE	8 K.1	HAL NUMBER		
Brown, Herbert	R.		lst Lt			STAT	
PARACHUTE TYPE		MAIN CAN	DPY TYPE	SENIOR CRO	> KEQU;: DWN_PRO⊴D		
X BACK	SEAT		STANDARD FLAT	[_] 30·	PENSONNEL	T-10	
CHEST PARACHUTE PART NR	TROOP	24	STANDARD FLAT		FFICIAL	USE OHLY	
UNUSUAL OCCUMRENC	āl kit		MAIN CANOPY DATA				
TYT UP 6	t deploy No	DAMAGE		Τ#	ST IN LINES		
RESERVE	PARACHUTE DATA	XX NO	NE ME	MUID	YKS	XX NO	
USED			энт 🗀 не	AVY	NR OF FUL	L TWISTS	
YES	ХХ ио	SEMI-INVE	REION		MPLETE INVEN		
UNUSUAL OCCURRENC	E		:s <u>XX</u> NC	. 1	YES	ЖХ] но	
YES	₩ но	SQUIDDING		1	URIES YES	<u>хх</u> но	
TEMARKS !							
from the parach above ground I	attempted to t	oss the kit aw	ay from me.	I did no	t toss the	bit fan	
enough and was	forced to land	on it in a si	tting positi	on. I red	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I red	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I red	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I re	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I re	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I re	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I re	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I re	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I red	ceived no	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I red	S REQUIRED	injuries as	
enough and was a result of the	forced to land	on it in a si	tting positi	on. I red	S REQUIRED	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I red	S REQUIRED	injuries as	
enough and was	forced to land	on it in a si	tting positi	on. I red	FICIAL U	injuries as	

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		married and the A magniferent and in adjusted white the second	the state of the s	7	S	P-1811	
	INDIVIDUAL LIVE JUMP	REPORTI ACCI	EGS REQUIREL WN PROGRAM	M BAYE		age 34 1971	
1	ME - MIODLE INITIAL	FOR OFFIC	IAL USE S	SERIAL	. NUMBER		STA
BROWN, HERBERT	Κ.	MAIN CANOPY TYP	?E				
X BACK	SEAT	28° STAND	ARD FLAT	30° PEF	RSONNEL	☐ T-1	0
CHEST	TROOP	24' STAND	ARD FLAT	МЭНТО	SR-71	Ĺ	• •
PARACHUTE PART NR UNUSUAL OCCURRENCI	E		MAIAM	CANOPY DA	TA		
YES	Х ио	DAMAGE		TWIST	IN LINES		
RESERVE	PARACHUTE DATA	X] NONE	MEDIUM		YES	NO NO	
USED	, ,	LIGHT	HEAVY		NR OF FU	LL TWISTS	
☐ YES	Х ио	SEMI-INVERSION	·	- сомес	ETE INVE	NOISE	·····
			(V) NO		YES	₹7 NO	

I exited the C-130 aircraft from the ramp in a stable position. The suspension lines were released just after the canopy achieved a stable full open condition. Several 360 degree turns were accomplished with a time duration varying from 20 to 35 seconds. I found the canopy easier to turn during this test (without survival kit) than during a previous test with an undeployed survival kit.

SQUIDDING CANOPY

X NO

T YES



INJURIES

YES

NO 🔀

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eic. NEGATIVE REPORT IS REQUIRED.

T YES

REMARKS I

X NO

Hubert & Brown

Anneromaticant Bulates at Date	27/11/081 CIA-RDP75B00285B50	Page 35			
	GRADE	SERIAL NUMBER			
LAST NAME . FIRST NAME . MIDDLE INITIAL	SPECIAL ACC	4			
FOWERS William	TO. MIS ETTORO	<u></u>			
PARACHUTE TYPE	MAIN CANOPY TYPE	STAT			
BACK DEAT		30° PERSONNEL T-10			
CHEST TROOP	= 24' STANDARD FROR OFF	HONY DRE QUITA			
PARACHUTE PART NR UNUBUAL OCCURRENCE	MAIN CANOPY DATA				
YES NO	DAMAGE	TWIST IN LINES			
RESERVE PARACHUTE DATA	MEDIUM	☐ YES ☐→HO			
USED	LIGHT HEAVY	NR OF FULL TWISTS			
YES LAND	SEMI-INVERSION YES Z NO	COMPLETE INVERSION VES MO			
UNUSUAL OCCURRENCE	SQUIDDING CANOPY	INJURIES .			
☐ YES ☑ NO	☐ YES ☑ NO	YES Z-NO			
REMARKS I		LO SE PTO			
C-130 - 110 KTJ	- map exit	10,000 11			
i '					
I stoped off	The tune back	EWANDS FACING			
10/00					
"Line OF Flight A	nd Fell stabl	FOR APOX			
3 sec. Then I pulled The proposed with my					
		•			
right have and the parachets doployed mine					
opened with out and notically opening stack.					
AFTER Fall opening I thied to ture to					
CANORY by pulling down The right front from tisor.					
This coused slight occillation and No concry					
tard. The I released the SIK live to Gore by					
pulling down on both Ingunula sinustriviously Than					
I reduced The sent kit by pulling The hands or					
The right side. As-	the Kit FIL NOR	y tou handle			
Storyed attacked to	and the second s	the same of the sa			
I This space to be used to explain all unusual occurrence. NEGATIVE REPORT IS REQUIRED.	Introdes 1	SENIO COVIL PROGNAM			
(大学) 大学 (大学) 大学 (大学) 大学 (大学) 大学 (大学) 大学 (大学) 大学 (大学) (大学)					
AFFTC FORM Approved For Release 200	72/11/08: GIA-RDP75B00285R00				
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up Approved For Depass 2002 16168: CHA-PDP 76B0 6285B000160680 012-0 FINE WORK ALL The houdh Frue, The SPECIAL CHEROCRAM TO KIT SENTOR CROPPERSONAL WAY AND IT FAIL TO The end of the refer ties linearly was OFFICE AND CONTRACT OFFICE AND WAY OF THE PROPERSON WAY

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Special Access Required

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REFERENCES

SP-1650 Report, "SR-71 Personnel Parachute Descent Control"

T.O. 14D1-2-81, "Four Line Release"



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SPECIAL ACCESS REQUIRED SENIOR CROWN PROGRAM

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DETACHMENT 51 HQ SMAMA (AFLC)
NORTON AIR FORCE BASE, CALIFORNIA 92409

REPLY TO ME

5. 5.100

FEB 8 1972

Modified MC-1 Personnel Parachute

SAC(LGMR/Major J. Janis)

- 1. On 18 December 1969, an incident occurred during a test flight of an SR-71 aircraft which resulted in crew bail-out. The parachute descent ended in a near mishap to crew members on landing as indicated in the accident board investigation:
- a. "There was considerable oscillation after release of the seat kit...The landing was in a marginal area, in a rock pile, and I hit backwards and was immediately knocked back over onto my head and the chute fell over a cliff. My concern was that it was going to billow and drag me over the cliff and it appeared to be 150-200 feet down; however, the chute did not blossom...".
- b. "In the drogue chute, I was trying to keep my seat oriented toward the Pilot...Once I got the chute, it was very difficult to turn the chute to look at him. I could pull down the riser and rotate the chute to where I was looking at him; however, as soon as I would let go it would rotate back and I would be facing primarily in a southern direction... I hit approximately six feet from a ravine. My chute canopy went over the bank of the ravine. The chute collapsed immediately before I could activate the quick releases...had the canopy remained open and had there been any surface wind, I'm sure it would have pulled me into the ravine. The ravine was approximately 40 to 50 feet deep with fairly steep sides".
- 2. Because of the problems incurred, the Accident Investigation Board recommended that a four-line release be incorporated into the SR-71 personnel parachute to enhance control of these chutes and reduce oscillations.
- 3. ADP was requested to accomplish an Engineering Study and they recommended a six-line release rather than a four-line release modification to the MC-1 parachute, because of its larger size.
- 4. The parachute tests were performed at the Naval Test Center, El Centro, California. They included whirl tower tests at 175, 225, and 250 knots in addition to nine live jumps in "shirt-sleeve" environment and nine live jumps in full pressure suits.
- 5. The Jump Tests revealed:
 - a. The modified MC-1 parachute is very stable.



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- b. The six-line release provided a slight turning improvement but actuation was difficult and tiring. Turns of 360° required 25-40 seconds to complete. Line release also induced a three to four knot forward speed; the desirability of this feature would vary with jump conditions, such as a 10 to 15 knot wind.
- c. Turns with the seat kit and raft released were more difficult to accomplish. The suspended survival kits made damping of crewmember oscillation more difficult.
 - Pressure suits did not present a problem in descent activity.
- 7. The test results have indicated that there is some merit to the six-line release modification. There is considerable doubt, however, that the parachute control exercised by test personnel would be utilized by crewmembers in an emergency situation. Test jumps were made with much preparation and full awareness of descent conditions, factors not usually available to crewmembers. Test personnel accomplished a variety of control maneuvers not expected of crewmembers.
- 8. ASPO engineering feels that the presently designed chute provides the optimum chances for survival under all circumstances and does not feel the proposed modifications to resolve speculation on possible adverse conditions will enhance the effectiveness of the existing system. We concur with the analysis and advice of the El Centro Parachute Test Center personnel and recommend that the modification not be accomplished.

FOR THE COMMANDER

WILLIAM MARSCHER, Lt Col, USAF Chief, Service Engineering Branch

Maintenance Engineering Division

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SENIOR CHOWN PROGRAM

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